Instructional Technology (Ph.D.)

Learning Technologies Division
2nd Floor, College of Education building
Brendan Calandra, Chair

The Ph.D. major in Instructional Technology provides specialization for individuals in the following areas: instructional design, alternative instructional delivery systems, research, management, and consulting. The program is designed for highly competent individuals who are working in the instructional technology field in a wide variety of educational, training, and development areas such as those found in schools, higher education, business, industry, and government agencies.

Program Degree Requirements
Doctor of Philosophy in Instructional Technology

Core Area (18 hours)
The Core Area consists of 15 semester hours of research coursework and 3 semester hours of Social Foundation of Education and Psychology of Learning coursework.

Research Core (15 hours)
Choose one course (3):

- EPRS 8500 Qualitative/Interpretive Research in Education (3)
- EPRS 8530 Quantitative Methods and Analysis in Education (3)

Required (12):
- A two course sequence (6 hours) in research methodology (see below for specific tracks/courses)
- Two courses (6 hours) in advanced research methods as identified by the Doctoral Advisory Committee

Quantitative Methodology

- EPRS 8540 Quantitative Methods and Analysis in Education II
- EPRS 8550 Quantitative Methods and Analysis in Education III (3)
- EPRS 8820 Institutional Research (3)
- EPRS 8830 Survey Research, Sampling Principles and Questionnaire Design (3)
- EPRS 8840 Meta-Analysis (3)
- EPRS 8660 Bayesian Statistics (3)
- EPRS 9550 Multivariate Analysis (3)
- EPRS 9560 Structural Equation Modeling (3)
- EPRS 9570 Hierarchical Linear Modeling I (3)
- EPRS 9571 Hierarchical Linear Modeling II (3)
- EPRS 9900 Advanced Research (3)
Qualitative Methodology
- ANTH 8010 Qualitative Methods in Anthropology (3)
- EPRS 8510 Qualitative Research in Education II (3)
- EPRS 8520 Qualitative Research in Education III (3)
- EPRS 8640 Case Study Methods (3)
- EPRS 8700 Visual Research Methods (3)
- EPRS 9120 Poststructural Inquiry (3)
- EPRS 9400 Writing Qualitative Research Manuscripts (3)
- EPSF 9280 Interpretive Inquiry in Education (3)

Single-Case Methodology
- EPY 8850 Introduction to Single-Case Methodology (3)
- EPY 8860 Applications of Single-Case Methodology (3)

Historical/Philosophical Methodology
- EPSF 9850 Historical Research in Twentieth Century American Education (3)
- EPSF 9930 Philosophical Analysis and Method (3)

Measurement Methodology
- EPRS 7920 Classroom Testing, Grading, and Assessment (3)
- EPRS 8920 Educational Measurement (3)
- EPRS 9350 Introduction to Item Response Theory (3)
- EPRS 9360 Advanced Item Response Theory (3)

Social Foundations of Education and Psychology of Learning course (3 hours)
Select one (3):
- EPSF 8270 Philosophy of Education (3)
- EPSF 8280 Anthropology of Education (3)
- EPSF 8310 Sociology of Education (3)
- EPSF 8320 Politics and Policy in Education (3)
- EPSF 8340 History of American Education (3)
- EPSF 9260 Epistemology and Learning (3)
- EPY 8030 Advanced Applied Behavior Analysis (3)
- EPY 8050 The Psychology of Instruction (3)
- EPY 8070 Understanding and Facilitating Adult Learning (3)
- EPY 8080 Memory and Cognition (3)
- EPY 8180 Development During School Age (5 to 18 Years) (3)
- EPY 8200 Advanced Developmental Psychology: Cognition and Intellect (3)
- EPY 8220 Advanced Developmental Psychology: Personality and Socialization (3)
Major Area (27 hours)
The required courses provide a conceptual base of research, emerging issues in education, and an in-depth examination of research in the major field. The internship (LT 8660) facilitates the application of theory to practice in the major field of study.

Required (15):
  • LT 9850 Research Seminar (9) *Students will take the course for one hour every semester until they are admitted into candidacy.*
  • LT 9900 Critique of Education Research (3)
  • LT 8660 Internship in Instructional Technology (3)

Select (12):
Students and Doctoral Advisory Committee select additional departmental courses relating to instructional technology.

Dissertation (15 hours)
Required (15):
  • LT 9990 Dissertation (15)

Program total: minimum of 60 semester hours